*, *	CRF Errors Corrected by th STIC Systems Branch	12
rial h	Number: /0/0/8/706 CRF Processing Dat ://7/2/	24
	Changed a file from non-ASCII to ASCII	af
	Changed the margins in cases where the sequence text was "wrappe" down to the next line.	
	Edited a format error in the Current Application Data section, specifically:	
`	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other	
	Added the mandatory heading and subheadings for "Current Application Data".	
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.	
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:	
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:	
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:	
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.	
]	Inserted colons after headings/subheadings. Headings edited included:	
	Deleted extra, invalid, headings used by an applicant, specifically:	
· • • • • • • • • • • • • • • • • • • •	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file page numbers throughout text; other invalid text, such as	э;
	Inserted mandatory headings, specifically:	
	Corrected an obvious error in the response, specifically:	
·	Edited identifiers where upper case is used but lower case is required, or vice versa.	
	Corrected an error in the Number of Sequences field, specifically:	
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.	
<i>J</i> .	Deleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	
<i>-</i>	Other: Seg 5-coverted spelling of Artificist"	

^{*}Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#

PCTIO

RAW SEQUENCE LISTING DATE: 01/17/2002
PATENT APPLICATION: US/10/018,706 TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

```
4 <110> APPLICANT: Thonnard, Joelle
      6 <120> TITLE OF INVENTION: Cloning of BASB110 Antigen From
              Moraxella (Branhamella) Catarrhalis
     10 <130> FILE REFERENCE: BM45394
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/018,706
C--> 12 <141> CURRENT FILING DATE: 2001-12-13
     12 <150> PRIOR APPLICATION NUMBER: 9915031.0
     13 <151> PRIOR FILING DATE: 1999-06-25
     15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/05854
     16 <151> PRIOR FILING DATE: 2000-06-23
     18 <160> NUMBER OF SEQ ID NOS: 6
     20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 969
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Moraxella catarrhalis
     27 <400> SEQUENCE: 1
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                                                                                60
     29 atttttggtg tgatcaccac ttgcattttg gcaggatgtg ccagtaagcc aacctataat
                                                                               120
     30 agtacctcag gttcgggcag tcatcgtact tcaggttcag gtggtttggc aataggttca
                                                                               180
                                                                               240
     31 caggitatea eggacagica gggegtacea aategetate aggitgaagea gggegataet
     32 qtcaqtaaqa ttqctcaqcq ttatqqatta aattqqcqtg aqattqqaca cattaataat
                                                                               300
     33 ctaaatagca gttatacgat ttatacaggt caatggctga ctttatggtc aggtgatctc
                                                                               360
     34 aaggtgcgtg agcgtagtat cagctctggt gtgaatacag ctcacacacc ttcgcctgtg
                                                                               420
     35 geggtteagt caageagace accagtacag cageateetg cegtacaaaa acceaegeea
                                                                               480
     36 cctgttgttg tggtaaaaaa acccacaccg actccgcctg tggttcagca gccagcacca
                                                                               540
     37 gttgccccac cagtgacaga agcaccattt gccacgggta gctcaggggt gatgcaattt
                                                                               600
     38 cyctatecty ttygtycyae caatecagty gttegaeget ttygtaegge gaeagtygee
                                                                               660
     39 ggctcaactg ttaccagtaa tggcatgtgg ttttctggac gagatggcga tttaattaac
                                                                               720
     40 gccagtaatg caggcacagt cattcaagct gatcacaata tggacggggc gagtattgtg
                                                                               780
     41 atteageata ceaatggatt tgttteaage tatateeata ttaaggaege teaagttaaa
                                                                               840
     42 acaggcgata cggtgcgtac cggtcagcgt attgcaagca tgaaaaatca gccaagcggt
                                                                               900
     43 gcggcactat ttgaatttag aatttctaga aatggcgtgt atgttgatcc attgacagta
                                                                               960
                                                                               969
     44 cttaaatag
     46 <210> SEQ ID NO: 2
     47 <211> LENGTH: 322
     48 <212> TYPE: PRT
     49 <213> ORGANISM: Moraxella catarrhalis
     51 <400> SEQUENCE: 2
     52 Met Thr Val Thr Ile Ala Ile Asn Ser Gln Asn Gln Lys Pro Ile Lys
     53 1
                         5
                                             10
     54 Arg Leu Gly Leu Ile Phe Gly Val Ile Thr Thr Cys Ile Leu Ala Gly
     56 Cys Ala Ser Lys Pro Thr Tyr Asn Ser Thr Ser Gly Ser Gly Ser His
                                    40
     58 Arg Thr Ser Gly Ser Gly Gly Leu Ala Ile Gly Ser Gln Val Ile Thr
     59
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RAW SEQUENCE LISTING DATE: 01/17/2002 PATENT APPLICATION: US/10/018,706 TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

```
60 Asp Ser Gln Gly Val Pro Asn Arg Tyr Gln Val Lys Gln Gly Asp Thr
                       70
62 Val Ser Lys Ile Ala Gln Arg Tyr Gly Leu Asn Trp Arg Glu Ile Gly
                                       90
                   85
64 His Ile Asn Asn Leu Asn Ser Ser Tyr Thr Ile Tyr Thr Gly Gln Trp
               100
                                   105
66 Leu Thr Leu Trp Ser Gly Asp Leu Lys Val Arg Glu Arg Ser Ile Ser
           115
                               120
                                                    125
68 Ser Gly Val Asn Thr Ala His Thr Pro Ser Pro Val Ala Val Gln Ser
70 Ser Arg Pro Pro Val Gln Gln His Pro Ala Val Gln Lys Pro Thr Pro
                       150
72 Pro Val Val Val Lys Lys Pro Thr Pro Thr Pro Pro Val Val Gln
73
                   165
                                       170
74 Gln Pro Ala Pro Val Ala Pro Pro Val Thr Glu Ala Pro Phe Ala Thr
               180
                                   185
76 Gly Ser Ser Gly Val Met Gln Phe Arg Tyr Pro Val Gly Ala Thr Asn
                                                    205
           195
                               200
78 Pro Val Val Arg Arg Phe Gly Thr Ala Thr Val Ala Gly Ser Thr Val
79
                           215
80 Thr Ser Asn Gly Met Trp Phe Ser Gly Arg Asp Gly Asp Leu Ile Asn
                       230
                                            235
82 Ala Ser Asn Ala Gly Thr Val Ile Gln Ala Asp His Asn Met Asp Gly
                   245
                                       250
84 Ala Ser Ile Val Ile Gln His Thr Asn Gly Phe Val Ser Ser Tyr Ile
               260
                                    265
86 His Ile Lys Asp Ala Gln Val Lys Thr Gly Asp Thr Val Arg Thr Gly
87
           275
                               280
88 Gln Arg Ile Ala Ser Met Lys Asn Gln Pro Ser Gly Ala Ala Leu Phe
                           295
                                                300
90 Glu Phe Arg Ile Ser Arg Asn Gly Val Tyr Val Asp Pro Leu Thr Val
91 305
                       310
                                                                320
                                            315
92 Leu Lys
95 <210> SEQ ID NO: 3
96 <211> LENGTH: 966
97 <212> TYPE: DNA
98 <213> ORGANISM: Moraxella catarrhalis
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                                                                            60
102 atttttggtg tgatcaccac ttgcattttg gcaggatgtg ccagtaagcc aacctataat
                                                                           120
103 agtacctcag gttcgggcag tcatcgtact tcaggttcag gtggtttggc aataggttca
                                                                           180
104 caggttatca cggacagtca gggcgtacca aatcgctatc aggtgaagca gggcgatact
                                                                           240
105 gtcagtaaga ttgctcagcg ttatggatta aattggcgtg agattggaca cattaataat
                                                                           300
106 ctaaatagcg gttatacgat ttatacaggt caatggctga ctttatggtc aggtgatctc
                                                                           360
107 aaggtgegtg agegtagtat cagetetggt gtgaatacag etcacacace ttegeetgtg
                                                                           420
108 gcggttcagt caagcagacc accagtacag cagcatcctg ccgtacaaaa acccacgcca
                                                                           480
109 cctgttgttg tggtaaaaaa acccacacg actccgcctg tggttcagca gccagcacca
                                                                           540
110 gttgccccac cagtgacaga agcaccattt gccacgggta gctcaggggt gatgcaattt
                                                                           600
111 cgctatcctg ttggtgcgac caatccagtg gttcgacgct ttggtacggc gacagtggcc
                                                                           660
```

RAW SEQUENCE LISTING DATE: 01/17/2002 PATENT APPLICATION: US/10/018,706 TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

112	ggct	tcaad	ctg t	taco	cagta	aa to	ggcat	gtgg	, ttt	tctg	ggac	gaga	atggo	ega 1	tttaa	ttaac	720
113	gcca	agtaa	atg o	caggo	cacag	gt ca	attca	agct	gat:	caca	aata	tgga	acggg	ggc (gagta	ittgtg	780
114	atto	cagca	ata d	ccaat	tggat	t to	gttt	caago	tat	catco	cata	ttaa	aggad	ege 1	tcaag	jttaaa	840
																agcggt	900
116	gcg	gcact	cat t	tgaa	attta	ag aa	attto	ctaga	a aat	ggc	gtgt	atgt	tgat	cc a	attga	cagta	960
117	7 cttaaa											966					
119	9 <210> SEQ ID NO: 4																
120) <211> LENGTH: 322																
121	L <212> TYPE: PRT																
122	<21	3> OI	RGANI	ISM:	Moraxella catarrhalis												
	<400																
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126					5					10			_		15	_	
	Arg	Leu	Gly		Ile	Phe	Gly	Val		Thr	Thr	Cys	Ile		Ala	Gly	
128				20				_ ^	25				_	30		•	
	Cys	Ala		Lys	Pro	Thr	Tyr		Ser	Thr	Ser	GLY		GIY	Ser	His	
130			35					40				_	45	•		1	
	Arg		Ser	Gly	Ser	Gly		Leu	Ala	Ile	GLY		GIn	Val	He	Thr	
132		50		~ 3		_	55			01	••- 1	60	01	01	3	ml	
	Asp	Ser	GIn	GLY	val		Asn	Arg	Tyr	GIN		гла	GIN	GIA	Asp		
	65			-1.		70		M	01	T	75	M	3	C1	T1.	80	
	Val	Ser	ьys	тте		GIN	Arg	туг	GTA		ASI	ттр	Arg	GIU	95	GTÅ	
136		71	7	3 ~ ~	85	N a n	gá.m	C1	M	90 mb~	T1.	m	mb∽	C1 **		m-rro	
	His	тте	ASII		теп	ASII	ser	СТУ	105	1111	TIE	тут	1111	110	GIII	пр	
138	Leu	Пhr	T OU	100	Sor	C117	λαn	Lou		Va 1	λrα	Glu	Δτα		т1Д	Sor	
140		1111	115	пр	Der	GIY	изр	120	פעם	Val	nrg	GIU	125		110	DCI	
	Ser	Glv		Δen	Thr	Δla	Пiс		Pro	Ser	Pro	Val		Val	Gln	Ser	
142		130	Vai	ASII	1111	niu	135	* ***	110	DCI	110	140	niu	, 41	0111	001	
	Ser		Pro	Pro	Val	Gln		His	Pro	λla	Val		Lvs	Pro	Thr	Pro	
	145	9			,	150					155		-1-			160	
	Pro	Val	Val	Val	Val		Lvs	Pro	Thr	Pro		Pro	Pro	Val	Val	Gln	
146					165	•	-			170					175		
	Gln	Pro	Ala	Pro	Val	Ala	Pro	Pro	Val	Thr	Glu	Ala	Pro	Phe	Ala	Thr	
148				180					185					190			
149	Gly	Ser	Ser	Gly	Val	Met	Gln	Phe	Arg	Tyr	Pro	Val	Gly	Ala	Thr	Asn	
150	_		195	_				200	•	_			205				
151	Pro	Val	Val	Arg	Arg	Phe	Gly	Thr	Ala	Thr	Val	Ala	Gly	Ser	Thr	Val	
152												220					
153	Thr	Ser	Asn	Gly	Met	Trp	Phe	Ser	Gly	Arg	Asp	Gly	Asp	Leu	Ile	Asn	
	225					230					235					240	
155	Ala	Ser	Asn	Ala	Gly	Thr	Val	Ile	Gln	Ala	Asp	His	Asn	Met	Asp	Gly	
156					245					250					255		
	Ala	Ser	Ile		Ile	Gln	His	Thr		Gly	Phe	Val	Ser		Tyr	Ile	
158				260					265					270			
	His	Ile	_	Asp	Ala	Gln	Val	_	Thr	Gly	Asp	Thr		Arg	Thr	Gly	
160			275				_	280				_+	285			•	
	Gln	_	Ile	Ala	Ser	Met		Asn	Gln	Pro	Ser		Ala	Ala	Leu	Phe	
162	•	290					295					300					

RAW SEQUENCE LISTING DATE: 01/17/2002 PATENT APPLICATION: US/10/018,706 TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

163	Glu Phe Arg Ile Ser Arg Asn Gly Val Tyr Val Asp Pro Leu Thr Val	
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165	Leu Lys	
168	<210> SEQ ID NO: 5	
169	<211> LENGTH: 35	
170	<212> TYPE: DNA	
171	<213> ORGANISM: Artificial Sequence	
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182	<213> ORGANISM: Artificial Sequence	
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185	<223> OTHER INFORMATION: Primer	
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VERIFICATION SUMMARY

DATE: 01/17/2002

PATENT APPLICATION: US/10/018,706

TIME: 08:17:51

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J018706.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date